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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,663	03/15/2004	Kazushige Takagi	1082.1067	8588

21171 7590 12/29/2006  
STAAS & HALSEY LLP  
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1201 NEW YORK AVENUE, N.W.  
WASHINGTON, DC 20005

EXAMINER
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SAID, MANSOUR M

ART UNIT	PAPER NUMBER
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2629

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/29/2006	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Office Action Summary

**Application No.**

10/799,663

**Applicant(s)**

TAKAGI ET AL.

**Examiner**

MANSOUR M. SAID

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 6 is/are rejected.
- 7) ☒ Claim(s) 4 and 5 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 3/15/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:**

**A person shall be entitled to a patent unless –**

**(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.**

- Claims 1-3 and 6 rejected under 35 U.S.C. 102(b) as being anticipated by Yamada et al. (2001/0033263 A1).**

**As to claim 1**, Yamada teaches a method for driving a plasma display panel which displays a frame composed of a plurality of sub-fields having different weights of luminance (figure 6 A-C) and page 3, paragraph 0023), the method comprising: using plural kinds of application voltage waveforms (figure 11, (1101 & 1102) different in light emission luminance (figure 6A-C, and figures 10-11, page 1, paragraph 0011 and page 3, paragraph 0023), as pulse voltages for sustain discharges in display of each sub-field (figures 1-2 and column 5, paragraphs 0060-0064) ; and adjusting the number of waves in each of the plural kinds of application voltage waveforms (figure 11, (1101 & 1102) according to the weight of luminance set for each sub-field, thereby performing gradation display (figures 1, 6 and 9-11, and page 3, paragraph 0023)..

**As to claim 2**, Yamada teaches wherein the number of waves in each of the plural kinds of application voltage waveforms (figure 11, (1101 & 1102) is changed in accordance with input

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luminance in order to perform gradation display (figures 1, 6 and 9-11, and page 3, paragraph 0023).

**As to claim 3**, Yamada teaches, wherein the plural kinds of application voltage waveforms (figure 11, (1101 & 1102) are arranged regularly and alternatively (page 3, paragraph 0023, paragraph 0025 and page 6, paragraph 0076).

As to claim 6, Yamada teaches. Wherein the constituent ratio of the plural kinds of application voltage waveforms (figure 11, (1101 & 1102) is changed in accordance with a display rate in display screen (figures 1, 6 and 9, and column 3, paragraph 0023 and page 5, paragraphs 0060-0064).

***Allowable Subject Matter***

3. **Claims 4-5** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

**As to claim 4**, “wherein, of the plural kinds of application voltage waveforms, application voltage waveforms of a kind with a high ultimate electric potential are arranged by being gathered in a latter half phase of a sustain period”

**As to claim 5**, “wherein, of the plural kinds of application voltage waveforms, application voltage waveforms of a kind with a higher ultimate electric potential are arranged by gathered in the middle phase of a sustain period, and application voltage waveforms of another

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kind with a lower ultimate electric potential are arranged by being gathered in phases prior to and subsequent to the middle phase of the sustain period”.

### *Conclusion*

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki (2003/0122743 A1) teaches a PDP having any luminance high than a predetermined value in a display region.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be

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obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

12/23/06

AMR A. AWAD  
SUPERVISORY PATENT EXAMINER  
